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to move towards the West. They soon blended together, and formed a dirty red sky, tinged with yellow.

“ N. B. THERE were no streamers, corruscations, tremulous or dancing motions, as are common to such Phænomena. This was a quiet one, except that it changed colours, and moved towards the West, as already described.

“ DURING the appearance the air was uncommonly severe and chilling; and, though the Heavens were serene and bespangled with stars, the atmosphere felt damp and heavy.

“ A little before ten o'clock, the whole sunk below our horizon and disappeared.”

*Mr. Thomas Gilpin hath presented a model of a Horizontal Wind-mill; and writes to the Society as follows.*

“ THAT to obviate the difficulty of turning the house, or frame, of common wind-mills to the wind, he had contrived a model of a horizontal wind-mill, which he had fixed to three pumps, as he apprehended the chief use of such a mill would be the applying it to raise water out of mines and quarries, and likewise out of wells, or brooks for watering meadows. He thinks also it might be further applied to answer the various uses of other wind-mills, without the inconvenience in turning or shifting them as the winds shift.

“ THE model is three pumps erect, in a triangular position; in the center is a crank erect in a step, and studded by a neck in a frame, from the ears of the pumps; on the top of the crank are eight arms, and at the ends of each is a sail which alternately draws with the wind, and folds against it, which gives a powerful motion to the crank, which, by a handle to each pump, works them in a regular succession.”

*Mr. John Jones, of Indian River, Worcester County, Maryland, gives the following account of a Species of Grape Vines, which he had discovered, different from all others he had ever seen.---*

“ THE bark (he says,) is of a grey colour, very smooth, and the wood of a firm texture. They delight in a high sandy soil;

foil; but will thrive very well in the Cyprus swamps. The leaf is very much like that of the English grape vine, such as is propagated in the gardens near Philadelphia for table use.

“ THE grape is much larger than the English, of an oval shape, and, when quite ripe, is black, adorned with a number of pale red specks, which, on handling, rub off. The pulp is a little like the Fox-grape; but in taste more delicious. These grapes are ripe in October, and yield an incredible quantity of juice, which, with proper management, he doubts not, would make a valuable wine.

“ HE employed a person to gather about three bushels and one peck of them when ripe, and immediately had them pressed; which, to his surprize, yielded twelve gallons of pure juice, though a good quantity must have been lost in the pressing.

“ IN about twelve hours after putting the juice in a keg, it began to ferment, and he suffered it to go on till it got to be so violent, that it might be heard all over a large room. It continued in that state for three days. He then check'd it, fearing it might turn acid, though, he says, he was afterwards convinced that if he had suffered it to ferment as long again, it would have separated the vinous parts from the fleshy, and given greater fineness to the liquor.

“ AFTER this it was rack'd off, and before cold weather buried in the garden, the top about six inches underground; where having continued till the summer following, he could not discover that it had in the least altered, either in taste or colour. He observes farther that, after eating a quantity of them, or drinking the juice, they leave an astringency, as claret is apt to do.

“ THERE is an immense quantity of these vines growing on the beach, open to the sea; and they are also found in great plenty upon the ridges, and in the swamps. Since their discovery he has transplanted a number of them into his vineyard, from which, in a year or two more, he expects to make a wine much better than is commonly imported.”